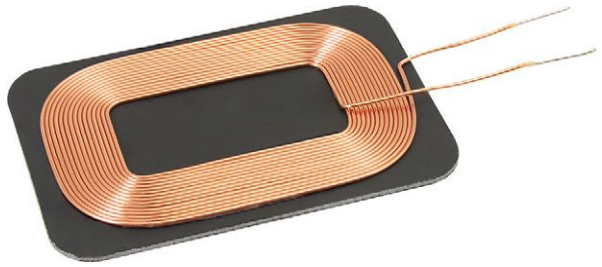
# Wireless Charging Receive Coil / Shield



## FEATURES

- Operating temperature: -40 °C to +105 °C
- Storage temperature: -40 °C to +105 °C
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

Pb-free

RoHS COMPLIANT

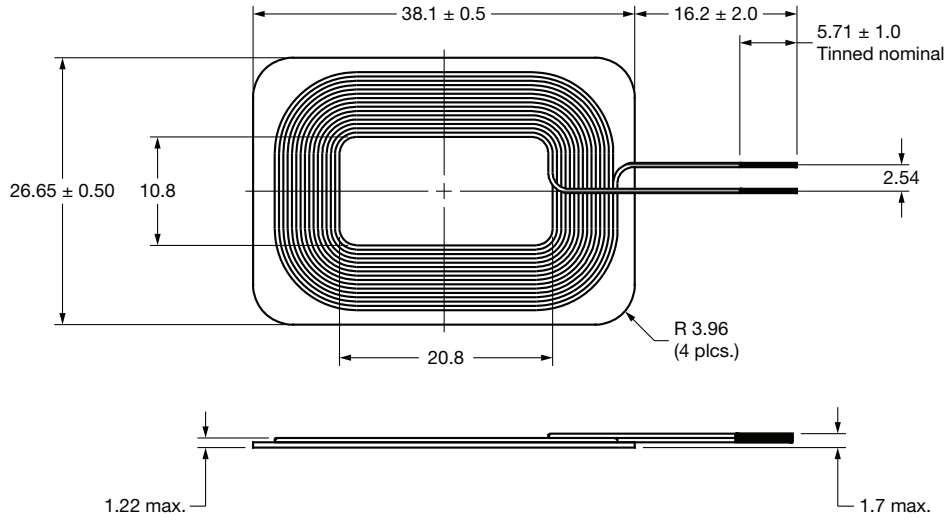
## SHIELD MATERIAL CHARACTERISTICS

- Permeability: ~ 10
- Resistivity: > 10 MΩ at 100 V
- Core loss: 800 mW/cm$^3$ at 500 gauss, 250 kHz
- Magnetic saturation: 92 % at 4000 gauss (~ 350 Oe)

## STANDARD ELECTRICAL SPECIFICATIONS With Test Coil

| $L_0$ INDUCTANCE ± 5 % AT 200 kHz, 0.25 V, 0 A (µH) | Q AT 200 kHz TYP. | DCR ± 5 % AT 25 °C (mΩ) |
|---|---|---|
| 10.65 | 30 | 178 |

## DIMENSIONS in millimeters




## DESCRIPTION

| IWAS-3827AB-F1 | 10 µH | 5 % | EB | e3 |
|---|---|---|---|---|
| MODEL | INDUCTANCE | INDUCTANCE TOLERANCE | PACKAGE CODE | JEDEC® LEAD (Pb)-FREE STANDARD |

## GLOBAL PART NUMBER

| I | W | A | S | 3 | 8 | 2 | 7 | A | B | E | B | 1 | 0 | 0 | J | F | 1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODEL | | | | SHIELD SIZE | | | | SHIELD THICKNESS | | LEAD (Pb)-FREE | PACKAGE | INDUCTANCE VALUE | | | TOL. | MATERIAL | LEAD CONFIG. |



For technical questions, contact: magnetics@vishay.com

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